



ProTek® Weatherable Heat Stabilized Velvet Polyester

Tekra Hardcoats are a complete line of functional hardcoats designed for graphic arts applications. Features of our hardcoat include:

- Excellent abrasion and scratch resistance
- Outstanding chemical resistance to common industrial and household materials
- Excellent weathering characteristics
- Embossability
- First surface texturability

Application

ProTek Weatherable HS Velvet Polyester is designed for applications where a tactile feel is desired for outdoor graphic overlays.

TYPICAL VALUES ‡

The ProTek Polyester coated property values below are typical measurements. Further guidance on series selection, functional behavior by end use, film processing, standard roll configuration and gauges are available through a Tekra Polyester Film Sales Representative. The following values are not binding specifications and may vary.

	Test Method	Unit	Value
Physical			
Specific Gravity	ASTM D792	g/cm ³	1.39
Area Factor		Lb/in ³	0.05
Clarity	TM 10.76	%	17
Haze	TM 10.76	%	58
Light Transmission	TM 10.76	%	90
Gloss over black	TM 10.15	GU	7
Gloss over white	TM 10.15	GU	19
Ra (surface roughness)	TM 10.68	Microns	2.6
Mechanical			
Abrasion Resistance	TM 10.13		Delta 8
Pencil Hardness	TM 10.97		H-2H
Tensile Strength			
Yield MD		psi	13000
Yield TD	ASTM D882	psi	24000
Break MD		psi	27000
Break TD		psi	1000
Tear Strength at Initiation	ASTM D1004	g/mil	16
Tear Strength at Propagation	ASTM D1922	g/mil	70
Thermal			
Glass Transition		C	0.2
Shrinkage	30 min at 120C	%	0.1
QUV Delta YI at 2000 hours	TM 10.71		<4

‡ These are typical values only and should not be confused with specification values. Specifications, tolerances and minimum values are available on request from your Tekra representative.



TYPICAL VALUES ‡

Chemical

4 hours 23C

Acetone	Pass
Concentrated HCL	Fail
Methyl Ethyl Ketone	Pass
Toluene	Pass
Methylene Chloride	Pass
Isopropyl Alcohol	Pass
Ethyl acetate	Pass
Xylene	Pass
Brake Fluid	Pass
Butyl Cellosolve	Pass
Hexane	Pass

24 hours 50C

Coffee	Pass
Fantastic	Pass
Formula 409	Pass
Windex	Pass
Tide	Pass
Downy	Pass
20% Bleach	Pass
Mustard	Stain
Mr. Clean	Pass
Ketchup	Pass
Tea	Pass
Tomato Juice	Slight Stain
Lemon Juice	Pass
Grape Juice	Pass
Vinegar	Pass
Milk	Pass
Top Job	Pass
Armor All	Pass
Ethanol	Pass
Salt Water	Pass
Coppertone SPF 70+	
Spray	Haze
Lotion	Haze
Deep Wood OFF	
25% Deet	Haze

The application suggestions, specifications, and other data described here are based on experience that is believed to be reliable. We recommend that before using these products in production, you perform your own tests to determine whether these products are suitable for your particular operation conditions.

Any order for these products will be subject to conditions of sale.

¹ Registered Trademark of SC Johnson

² Registered Trademark of the Clorox Company

³ Registered Trademark of Proctor and Gamble

‡ These are typical values only and should not be confused with specification values. Specifications, tolerances and minimum values are available on request from your Tekra representative.